

SAFETY DATA SHEET



SureSelect Strand-Specific RNA Library Prep Kit Box 2 - ILM - 16 Samples, Part Number 5190-6410

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	: SureSelect Strand-Specific RNA Library Prep Kit Box 2 - ILM - 16 Samples, Part Number 5190-6410
Part no. (chemical kit)	: 5190-6410
Part no.	: Nuclease Free Water 5190-6404 RNA Seq Bead Washing Buffer 5190-6402 Oligo (dT) Microparticles 5190-6400 RNA Seq Bead Binding Buffer 5190-6401 RNA Seq Bead Elution Buffer 5190-6403

1.2 Relevant identified uses of the substance or mixture and uses advised against

Material uses	: Analytical reagent.
	Nuclease Free Water 2.6 ml (16 reactions)
	RNA Seq Bead Washing Buffer 7 ml (16 reactions)
	Oligo (dT) Microparticles 0.44 ml (16 reactions)
	RNA Seq Bead Binding Buffer 0.44 ml (16 reactions)
	RNA Seq Bead Elution Buffer 0.44 ml (16 reactions)

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: Nuclease Free Water Mono-constituent substance RNA Seq Bead Washing Buffer Mixture Oligo (dT) Microparticles Mixture RNA Seq Bead Binding Buffer Mixture RNA Seq Bead Elution Buffer Mixture
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Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

See Section 16 for the full text of the H statements declared above.

Date of issue/Date of revision : 14/02/2018

1/25

SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word	:	<input checked="" type="checkbox"/> Nuclease Free Water	No signal word.
		RNA Seq Bead Washing Buffer	No signal word.
		Oligo (dT) Microparticles	No signal word.
		RNA Seq Bead Binding Buffer	No signal word.
		RNA Seq Bead Elution Buffer	No signal word.
Hazard statements	:	<input checked="" type="checkbox"/> Nuclease Free Water	No known significant effects or critical hazards.
		RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.
Precautionary statements			
Prevention	:	<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
		RNA Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA Seq Bead Binding Buffer	Not applicable.
		RNA Seq Bead Elution Buffer	Not applicable.
Response	:	<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
		RNA Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA Seq Bead Binding Buffer	Not applicable.
		RNA Seq Bead Elution Buffer	Not applicable.
Storage	:	<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
		RNA Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA Seq Bead Binding Buffer	Not applicable.
		RNA Seq Bead Elution Buffer	Not applicable.
Disposal	:	<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
		RNA Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA Seq Bead Binding Buffer	Not applicable.
		RNA Seq Bead Elution Buffer	Not applicable.
Hazardous ingredients	:	<input checked="" type="checkbox"/> Oligo (dT) Microparticles	Not applicable.
		RNA Seq Bead Binding Buffer	Not applicable.

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SECTION 2: Hazards identification

Supplemental label elements :

<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
RNA Seq Bead Washing Buffer	Not applicable.
Oligo (dT) Microparticles	Safety data sheet available on request.
RNA Seq Bead Binding Buffer	Safety data sheet available on request.
RNA Seq Bead Elution Buffer	Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles :

<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
RNA Seq Bead Washing Buffer	Not applicable.
Oligo (dT) Microparticles	Not applicable.
RNA Seq Bead Binding Buffer	Not applicable.
RNA Seq Bead Elution Buffer	Not applicable.

Special packaging requirements

Tactile warning of danger :

<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
RNA Seq Bead Washing Buffer	Not applicable.
Oligo (dT) Microparticles	Not applicable.
RNA Seq Bead Binding Buffer	Not applicable.
RNA Seq Bead Elution Buffer	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification :

<input checked="" type="checkbox"/> Nuclease Free Water	None known.
RNA Seq Bead Washing Buffer	None known.
Oligo (dT) Microparticles	None known.
RNA Seq Bead Binding Buffer	None known.
RNA Seq Bead Elution Buffer	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances :

<input checked="" type="checkbox"/> Nuclease Free Water	Mono-constituent substance
RNA Seq Bead Washing Buffer	Mixture
Oligo (dT) Microparticles	Mixture
RNA Seq Bead Binding Buffer	Mixture
RNA Seq Bead Elution Buffer	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<input checked="" type="checkbox"/> Nuclease Free Water Water	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	[A]
Oligo (dT) Microparticles Lithium chloride	EC: 231-212-3 CAS: 7447-41-8	≤5	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
RNA Seq Bead Binding Buffer Lithium chloride	EC: 231-212-3 CAS: 7447-41-8	≤5	Acute Tox. 4, H302 Acute Tox. 4, H312	[1]

SECTION 3: Composition/information on ingredients

			Skin Irrit. 2, H315 Eye Irrit. 2, H319 See Section 16 for the full text of the H statements declared above.
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: <input checked="" type="checkbox"/> Nuclease Free Water	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	RNA Seq Bead Washing Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Oligo (dT) Microparticles	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	RNA Seq Bead Binding Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	RNA Seq Bead Elution Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: <input checked="" type="checkbox"/> Nuclease Free Water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	RNA Seq Bead Washing Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Oligo (dT) Microparticles	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	RNA Seq Bead Binding Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	RNA Seq Bead Elution Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: <input checked="" type="checkbox"/> Nuclease Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	RNA Seq Bead Washing Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Oligo (dT) Microparticles	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SECTION 4: First aid measures

	RNA Seq Bead Binding Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	RNA Seq Bead Elution Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Nuclease Free Water	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	RNA Seq Bead Washing Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Oligo (dT) Microparticles	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	RNA Seq Bead Binding Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	RNA Seq Bead Elution Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: Nuclease Free Water	No action shall be taken involving any personal risk or without suitable training.
	RNA Seq Bead Washing Buffer	No action shall be taken involving any personal risk or without suitable training.
	Oligo (dT) Microparticles	No action shall be taken involving any personal risk or without suitable training.
	RNA Seq Bead Binding Buffer	No action shall be taken involving any personal risk or without suitable training.
	RNA Seq Bead Elution Buffer	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: Nuclease Free Water	No known significant effects or critical hazards.
	RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
	Oligo (dT) Microparticles	No known significant effects or critical hazards.
	RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
	RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.

SECTION 4: First aid measures

Inhalation	:	☑ Nuclease Free Water	No known significant effects or critical hazards.
		RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.
Skin contact	:	☑ Nuclease Free Water	No known significant effects or critical hazards.
		RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.
Ingestion	:	☑ Nuclease Free Water	No known significant effects or critical hazards.
		RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	☑ Nuclease Free Water	No specific data.
		RNA Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA Seq Bead Binding Buffer	No specific data.
		RNA Seq Bead Elution Buffer	No specific data.
Inhalation	:	☑ Nuclease Free Water	No specific data.
		RNA Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA Seq Bead Binding Buffer	No specific data.
		RNA Seq Bead Elution Buffer	No specific data.
Skin contact	:	☑ Nuclease Free Water	No specific data.
		RNA Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA Seq Bead Binding Buffer	No specific data.
		RNA Seq Bead Elution Buffer	No specific data.
Ingestion	:	☑ Nuclease Free Water	No specific data.
		RNA Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA Seq Bead Binding Buffer	No specific data.
		RNA Seq Bead Elution Buffer	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 4: First aid measures

Notes to physician	:	<input checked="" type="checkbox"/> Nuclease Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		RNA Seq Bead Washing Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Oligo (dT) Microparticles	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		RNA Seq Bead Binding Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		RNA Seq Bead Elution Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Specific treatments	:
		RNA Seq Bead Washing Buffer	No specific treatment.
		Oligo (dT) Microparticles	No specific treatment.
		RNA Seq Bead Binding Buffer	No specific treatment.
		RNA Seq Bead Elution Buffer	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	<input checked="" type="checkbox"/> Nuclease Free Water	Use an extinguishing agent suitable for the surrounding fire.
		RNA Seq Bead Washing Buffer	Use an extinguishing agent suitable for the surrounding fire.
		Oligo (dT) Microparticles	Use an extinguishing agent suitable for the surrounding fire.
		RNA Seq Bead Binding Buffer	Use an extinguishing agent suitable for the surrounding fire.
		RNA Seq Bead Elution Buffer	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	<input checked="" type="checkbox"/> Nuclease Free Water	None known.
		RNA Seq Bead Washing Buffer	None known.
		Oligo (dT) Microparticles	None known.
		RNA Seq Bead Binding Buffer	None known.
		RNA Seq Bead Elution Buffer	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	<input checked="" type="checkbox"/> Nuclease Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
		RNA Seq Bead Washing Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		Oligo (dT) Microparticles	In a fire or if heated, a pressure increase will occur and the container may burst.
		RNA Seq Bead Binding Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		RNA Seq Bead Elution Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	:	<input checked="" type="checkbox"/> Nuclease Free Water	No specific data.
		RNA Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
		RNA Seq Bead Binding Buffer	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides

SECTION 5: Firefighting measures

RNA Seq Bead Elution Buffer No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters

: Nuclease Free Water Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

RNA Seq Bead Washing Buffer Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Oligo (dT) Microparticles Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

RNA Seq Bead Binding Buffer Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

RNA Seq Bead Elution Buffer Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Nuclease Free Water Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

RNA Seq Bead Washing Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Oligo (dT) Microparticles Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

RNA Seq Bead Binding Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

RNA Seq Bead Elution Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Nuclease Free Water No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

RNA Seq Bead Washing Buffer No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

SECTION 6: Accidental release measures

		Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Oligo (dT) Microparticles	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	RNA Seq Bead Binding Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	RNA Seq Bead Elution Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: Nuclease Free Water	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	RNA Seq Bead Washing Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Oligo (dT) Microparticles	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	RNA Seq Bead Binding Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	RNA Seq Bead Elution Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Nuclease Free Water	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	RNA Seq Bead Washing Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Oligo (dT) Microparticles	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	RNA Seq Bead Binding Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	RNA Seq Bead Elution Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures

Methods for cleaning up	: Nuclease Free Water	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	RNA Seq Bead Washing Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Oligo (dT) Microparticles	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	RNA Seq Bead Binding Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	RNA Seq Bead Elution Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Nuclease Free Water	Put on appropriate personal protective equipment (see Section 8).
	RNA Seq Bead Washing Buffer	Put on appropriate personal protective equipment (see Section 8).
	Oligo (dT) Microparticles	Put on appropriate personal protective equipment (see Section 8).
	RNA Seq Bead Binding Buffer	Put on appropriate personal protective equipment (see Section 8).
	RNA Seq Bead Elution Buffer	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Nuclease Free Water	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	RNA Seq Bead Washing Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Oligo (dT) Microparticles	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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RNA Seq Bead Binding Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
RNA Seq Bead Elution Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage

: Nuclease Free Water	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
RNA Seq Bead Washing Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Oligo (dT) Microparticles	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
RNA Seq Bead Binding Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
RNA Seq Bead Elution Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

SECTION 7: Handling and storage

appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: Nuclease Free Water	Industrial applications, Professional applications.
	RNA Seq Bead Washing Buffer	Industrial applications, Professional applications.
	Oligo (dT) Microparticles	Industrial applications, Professional applications.
	RNA Seq Bead Binding Buffer	Industrial applications, Professional applications.
	RNA Seq Bead Elution Buffer	Industrial applications, Professional applications.
Industrial sector specific solutions	: Nuclease Free Water	Not applicable.
	RNA Seq Bead Washing Buffer	Not applicable.
	Oligo (dT) Microparticles	Not applicable.
	RNA Seq Bead Binding Buffer	Not applicable.
	RNA Seq Bead Elution Buffer	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 8: Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Nuclease Free Water	Liquid.
	RNA Seq Bead	Liquid.
	Washing Buffer	
	Oligo (dT)	Liquid.
	Microparticles	
	RNA Seq Bead Binding Buffer	Liquid.
	RNA Seq Bead Elution Buffer	Liquid.
Colour	: Nuclease Free Water	Colourless.
	RNA Seq Bead	Not available.
	Washing Buffer	
	Oligo (dT)	Not available.
	Microparticles	
	RNA Seq Bead Binding Buffer	Not available.
	RNA Seq Bead Elution Buffer	Not available.
Odour	: Nuclease Free Water	Odourless.
	RNA Seq Bead	Not available.
	Washing Buffer	
	Oligo (dT)	Not available.
	Microparticles	
	RNA Seq Bead Binding Buffer	Not available.
	RNA Seq Bead Elution Buffer	Not available.

SECTION 9: Physical and chemical properties

Odour threshold	:	<input checked="" type="checkbox"/> Nuclease Free Water	Not available.
		RNA Seq Bead	Not available.
		Washing Buffer	
		Oligo (dT)	Not available.
		Microparticles	
		RNA Seq Bead Binding Buffer	Not available.
		RNA Seq Bead Elution Buffer	Not available.
pH	:	<input checked="" type="checkbox"/> Nuclease Free Water	7
		RNA Seq Bead	7.5
		Washing Buffer	
		Oligo (dT)	7.5
		Microparticles	
		RNA Seq Bead Binding Buffer	7.5
		RNA Seq Bead Elution Buffer	7.5
Melting point/freezing point	:	<input checked="" type="checkbox"/> Nuclease Free Water	0°C
		RNA Seq Bead	0°C
		Washing Buffer	
		Oligo (dT)	Not available.
		Microparticles	
		RNA Seq Bead Binding Buffer	0°C
		RNA Seq Bead Elution Buffer	0°C
Initial boiling point and boiling range	:	<input checked="" type="checkbox"/> Nuclease Free Water	100°C
		RNA Seq Bead	100°C
		Washing Buffer	
		Oligo (dT)	Not available.
		Microparticles	
		RNA Seq Bead Binding Buffer	100°C
		RNA Seq Bead Elution Buffer	100°C
Flash point	:	<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
		RNA Seq Bead	Not available.
		Washing Buffer	
		Oligo (dT)	Not available.
		Microparticles	
		RNA Seq Bead Binding Buffer	Not available.
		RNA Seq Bead Elution Buffer	Not available.
Evaporation rate	:	<input checked="" type="checkbox"/> Nuclease Free Water	Not available.
		RNA Seq Bead	Not available.
		Washing Buffer	
		Oligo (dT)	Not available.
		Microparticles	
		RNA Seq Bead Binding Buffer	Not available.
		RNA Seq Bead Elution Buffer	Not available.

SECTION 9: Physical and chemical properties

Flammability (solid, gas)	:	<input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Upper/lower flammability or explosive limits	:	<input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	Not available. Not available. Not available. Not available. Not available. Not available.
Vapour pressure	:	<input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	3.2 kPa [room temperature] Not available. Not available. Not available. Not available. Not available.
Vapour density	:	<input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	0.62 [Air = 1] Not available. Not available. Not available. Not available. Not available.
Relative density	:	<input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	1 Not available. Not available. Not available. Not available. Not available.
Solubility(ies)	:	<input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.

SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/water	:	☑ Nuclease Free Water	-1.38
		RNA Seq Bead	Not available.
		Washing Buffer	
		Oligo (dT)	Not available.
		Microparticles	
		RNA Seq Bead Binding Buffer	Not available.
		RNA Seq Bead Elution Buffer	Not available.
Auto-ignition temperature	:	☑ Nuclease Free Water	Not applicable.
		RNA Seq Bead	Not available.
		Washing Buffer	
		Oligo (dT)	Not available.
		Microparticles	
		RNA Seq Bead Binding Buffer	Not available.
		RNA Seq Bead Elution Buffer	Not available.
Decomposition temperature	:	☑ Nuclease Free Water	Not available.
		RNA Seq Bead	Not available.
		Washing Buffer	
		Oligo (dT)	Not available.
		Microparticles	
		RNA Seq Bead Binding Buffer	Not available.
		RNA Seq Bead Elution Buffer	Not available.
Viscosity	:	☑ Nuclease Free Water	Not available.
		RNA Seq Bead	Not available.
		Washing Buffer	
		Oligo (dT)	Not available.
		Microparticles	
		RNA Seq Bead Binding Buffer	Not available.
		RNA Seq Bead Elution Buffer	Not available.
Explosive properties	:	☑ Nuclease Free Water	Not available.
		RNA Seq Bead	Not available.
		Washing Buffer	
		Oligo (dT)	Not available.
		Microparticles	
		RNA Seq Bead Binding Buffer	Not available.
		RNA Seq Bead Elution Buffer	Not available.
Oxidising properties	:	☑ Nuclease Free Water	Not applicable.
		RNA Seq Bead	Not available.
		Washing Buffer	
		Oligo (dT)	Not available.
		Microparticles	
		RNA Seq Bead Binding Buffer	Not available.
		RNA Seq Bead Elution Buffer	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: <input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: <input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: <input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: <input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	No specific data. No specific data. No specific data. No specific data. No specific data.
10.5 Incompatible materials	: <input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: <input checked="" type="checkbox"/> Nuclease Free Water RNA Seq Bead Washing Buffer Oligo (dT) Microparticles RNA Seq Bead Binding Buffer RNA Seq Bead Elution Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Oligo (dT) Microparticles Lithium chloride	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Dermal LD50 Oral	Rat Rabbit Rat Rat	>5.57 mg/l 1629 mg/kg 1488 mg/kg 526 mg/kg	4 hours - - -
RNA Seq Bead Binding Buffer Lithium chloride	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Dermal LD50 Oral	Rat Rabbit Rat Rat	>5.57 mg/l 1629 mg/kg 1488 mg/kg 526 mg/kg	4 hours - - -

Acute toxicity estimates

Route	ATE value
Oligo (dT) Microparticles Oral Dermal	12232.6 mg/kg 34604.7 mg/kg
RNA Seq Bead Binding Buffer Oral Dermal	12232.6 mg/kg 34604.7 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Oligo (dT) Microparticles Lithium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-
RNA Seq Bead Binding Buffer Lithium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

SECTION 11: Toxicological information

Aspiration hazard

Not available.

Information on likely routes of exposure

: Nuclease Free Water	Not available.
RNA Seq Bead Washing Buffer	Not available.
Oligo (dT) Microparticles	Routes of entry anticipated: Oral, Dermal, Inhalation.
RNA Seq Bead Binding Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
RNA Seq Bead Elution Buffer	Not available.

Potential acute health effects

Inhalation

: Nuclease Free Water	No known significant effects or critical hazards.
RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
Oligo (dT) Microparticles	No known significant effects or critical hazards.
RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.

Ingestion

: Nuclease Free Water	No known significant effects or critical hazards.
RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
Oligo (dT) Microparticles	No known significant effects or critical hazards.
RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.

Skin contact

: Nuclease Free Water	No known significant effects or critical hazards.
RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
Oligo (dT) Microparticles	No known significant effects or critical hazards.
RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.

Eye contact

: Nuclease Free Water	No known significant effects or critical hazards.
RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
Oligo (dT) Microparticles	No known significant effects or critical hazards.
RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation

: Nuclease Free Water	No specific data.
RNA Seq Bead Washing Buffer	No specific data.
Oligo (dT) Microparticles	No specific data.
RNA Seq Bead Binding Buffer	No specific data.
RNA Seq Bead Elution Buffer	No specific data.

SECTION 11: Toxicological information

Ingestion	:	<input checked="" type="checkbox"/> Nuclease Free Water	No specific data.
		RNA Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA Seq Bead Binding Buffer	No specific data.
		RNA Seq Bead Elution Buffer	No specific data.
Skin contact	:	<input checked="" type="checkbox"/> Nuclease Free Water	No specific data.
		RNA Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA Seq Bead Binding Buffer	No specific data.
		RNA Seq Bead Elution Buffer	No specific data.
Eye contact	:	<input checked="" type="checkbox"/> Nuclease Free Water	No specific data.
		RNA Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA Seq Bead Binding Buffer	No specific data.
		RNA Seq Bead Elution Buffer	No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	:	<input checked="" type="checkbox"/> Nuclease Free Water	No known significant effects or critical hazards.
		RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.
Carcinogenicity	:	<input checked="" type="checkbox"/> Nuclease Free Water	No known significant effects or critical hazards.
		RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Mutagenicity	: Nuclease Free Water	No known significant effects or critical hazards.
	RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
	Oligo (dT) Microparticles	No known significant effects or critical hazards.
	RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
Teratogenicity	: Nuclease Free Water	No known significant effects or critical hazards.
	RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
	Oligo (dT) Microparticles	No known significant effects or critical hazards.
	RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
Developmental effects	: Nuclease Free Water	No known significant effects or critical hazards.
	RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
	Oligo (dT) Microparticles	No known significant effects or critical hazards.
	RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
Fertility effects	: Nuclease Free Water	No known significant effects or critical hazards.
	RNA Seq Bead Washing Buffer	No known significant effects or critical hazards.
	Oligo (dT) Microparticles	No known significant effects or critical hazards.
	RNA Seq Bead Binding Buffer	No known significant effects or critical hazards.
	RNA Seq Bead Elution Buffer	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Oligo (dT) Microparticles Lithium chloride	Acute EC50 112 mg/l Fresh water	Algae	72 hours
	Acute EC50 249 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 17000 µg/l Fresh water	Fish - <i>Ptychocheilus lucius</i> - Swim-up	96 hours
	Acute NOEC 25 mg/l Fresh water	Algae	72 hours
	Acute NOEC 63.4 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 59.4 mg/l Fresh water	Fish	96 hours
RNA Seq Bead Binding Buffer Lithium chloride	Acute EC50 112 mg/l Fresh water	Algae	72 hours
	Acute EC50 249 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 17000 µg/l Fresh water	Fish - <i>Ptychocheilus lucius</i> - Swim-up	96 hours
	Acute NOEC 25 mg/l Fresh water	Algae	72 hours
	Acute NOEC 63.4 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 59.4 mg/l Fresh water	Fish	96 hours

12.2 Persistence and degradability

Not available.

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nuclease Free Water Water	-	-	Readily
Oligo (dT) Microparticles Lithium chloride	-	-	Readily
RNA Seq Bead Binding Buffer Lithium chloride	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Nuclease Free Water Water	-1.38	-	low

12.4 Mobility in soil

- Soil/water partition coefficient (K_{oc})** : Not available.
- Mobility** : Not available.

12.5 Results of PBT and vPvB assessment

- PBT** : Not applicable.
- vPvB** : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
		RNA Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA Seq Bead Binding Buffer	Not applicable.
		RNA Seq Bead Elution Buffer	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.

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SECTION 15: Regulatory information

Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

<input checked="" type="checkbox"/> Oligo (dT) Microparticles H302 H312 H315 H319 RNA Seq Bead Binding Buffer H302 H312 H315 H319	Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation.
--	--

Full text of classifications [CLP/GHS]

<input checked="" type="checkbox"/> Oligo (dT) Microparticles Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Irrit. 2, H319 Skin Irrit. 2, H315 RNA Seq Bead Binding Buffer Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Irrit. 2, H319 Skin Irrit. 2, H315	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2
--	--

Date of issue/Date of revision : 14/02/2018

24/25

SureSelect Strand-Specific RNA Library Prep Kit Box 2 - ILM - 16 Samples, Part Number 5190-6410

SECTION 16: Other information

Date of issue/ Date of revision : 14/02/2018

Date of previous issue : 15/07/2016

Version : 2

Notice to reader

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